

AMENDMENTS

IN THE CLAIMS:

1. (Previously Presented) An isolated nucleic acid molecule encoding a fluorescent protein, wherein said protein has at least 90% identity with full length SEQ ID NO: 10.

2-4. (Cancelled)

5. (Original) A vector comprising the nucleic acid molecule according to claim 1.

6. (Previously Presented) An expression cassette comprising
(a) a transcriptional initiation region that is functional in an expression host;
(b) the nucleic acid molecule according to claim 1; and
(c) a transcriptional termination region functional in said expression host.

7. (Previously Presented) A host cell or progeny thereof, comprising the expression cassette according to claim 6 as part of an extrachromosomal element or integrated into the genome of a host cell as a result of introduction of said expression cassette into said host cell.

8. (Previously Presented) A transgenic cell, or progeny thereof, comprising the nucleic acid molecule according to claim 1.

9. (Withdrawn) A transgenic plant comprising the nucleic acid molecule according to claim 1.

10. (Withdrawn) A transgenic animal comprising the nucleic acid molecule according to claim 1.

11. (Withdrawn) A method for producing a fluorescent protein, said method comprising
(a) providing an expression cassette according to claim 6
(b) expressing the fluorescent protein from the nucleic acid molecule, and
(c) isolating the protein substantially free of other proteins.

12. (Cancelled)

13. (Previously Presented) The nucleic acid molecule according to claim 1, wherein said nucleic acid comprises a sequence that is identical to a nucleotide sequence of at least 300 contiguous nucleotides in length of SEQ ID NO:9.

14. (Withdrawn) An isolated fluorescent protein that is encoded by the nucleic acid molecule according to claim 1.

15. (Withdrawn) A fusion protein comprising the protein according to claim 14.

16. (Withdrawn) An antibody specifically binding to the protein according to claim 14.

17. (Previously Presented) A kit comprising at least one nucleic acid molecule according to claim 1.

18-27. (Cancelled)

28. (Previously Presented) The nucleic acid molecule according to the claim 1 which encodes full length SEQ ID NO: 10.

29. (Cancelled)

30. (Currently Amended) The nucleic acid molecule according to claim 1, wherein said nucleic acid molecule has having a nucleotide sequence comprising full length SEQ ID NO: 9.

31. (Cancelled)

32. (Currently Amended) The nucleic acid molecule according to **Claim claim** 1, wherein said nucleic acid molecule has having a nucleotide sequence having at least 95% identity with full length SEQ ID NO:9.

33. (Cancelled)